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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/670,760	09/27/2000	Luis Felipe Cabrera	MSFT-0176/150795.1	6145
41505	7590 09/05/2006		EXAMINER	
WOODCOCK WASHBURN LLP (MICROSOFT CORPORATION)			THAI, HANH B	
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	,		2163	
			DATE MAILED: 09/05/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Comments	09/670,760	CABRERA, LUIS FELIPE				
Office Action Summary	Examiner	Art Unit				
	Hanh B. Thai	2163				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on amen	Responsive to communication(s) filed on <u>amendment filed 8/1/06</u> .					
<u></u>	, ,					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
·						
Disposition of Claims						
	☑ Claim(s) <u>1-23 and 25-33</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-23 and 25-33</u> is/are rejected.						
7)☐ Claim(s) is/are objected to.	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					

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DETAILED ACTION

1. The following is Final Office Action in response to amendment filed August 1, 2006.

Response to Arguments

2. Applicant's arguments regarding "allowing for the restoration of the target object without the restoration of the set of objects" have been fully considered but they are not persuasive.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1-2, 4-13, 15, 17-23, 25-30 and 32 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The amended claims recite "target object allows for the restoration of the target object without the restoration of the set of objects." Examiner could not find the support for Applicant' user of cumulative backup file corresponding for the second time for said target object allows for the restoration without restoring the set of object.

Examiner notes that applicant's summary contains information regarding incremental backup associated with an accumulative element regarding a change in a backup target; However, examiner does not find the support for applicant's claimed language of "target object allows for the restoration of the target object without the restoration of the set of objects."

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-2, 4-13, 15, 17-23, 25-30 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zaremba (U. S. Patent no. 6,647,399) of record and further view of Stevens (U. S. Patent no. 6,145,088) of record.

Regarding claims 1 and 15, Zaremba discloses a method for generating backup files in a computer system, comprising:

- generating a full backup file corresponding to a first time for a set of objects in the computer system (abstract; col.2, lines 26-44 and col.4, lines 8-67, Zaremba);
- generating at least one incremental file for said set of object after the first time, wherein each of the incremental file(s) is associated with the set of objects (abstract; col.2, lines 21-27 and col.4, lines 47-65, Zaremba);
- identifying a target object within said set of object for the generation of cumulative backup files (abstract; col.2, lines 38-41 and col.5, lines 40-44, Zaremba); and
- generating at least one cumulative backup file corresponding to a second time, after the first time, for the target object (abstract; col.6, line 63-col. 7, line 21 and col.8, lines32-44, Zaremba).

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Zaremba, however, does not disclose that the backup file is performed off-line. Stevens discloses an apparatus for remote recovery including the backup file that can be performed off-line (see col. 1, lines 49-56, Stevens). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Zaremba. The motivation of doing so would have been to provide potentially relief for data loss (column 1, lines 49-56, Stevens).

Regarding claim 2, Zaremba/Stevens combination further discloses that the generating of the at least one cumulative backup file includes analyzing at least one incremental file generated between the first and second time (abstract; col.5, lines 40-44; col. 7, lines 5-21 and col.8, lines 32-44, Zaremba).

Regarding claim 4, Zaremba/Stevens combination further discloses restoring the target object to the second time by processing the full backup file and the at least one cumulative backup file (col. 7, lines 5- 21 and col.8, lines32-44, Zaremba).

Regarding claim 5, Zaremba/Stevens combination discloses that the backup or restore the target object the second time after the first time (abstract; col.6, line 63-col. 7, line 21 and col.8, lines 32-44, Zaremba). Since the combination system can reconstruct the target objects the second time (see col. 2, lines 32-49, Zaremba). It is clearly operated to reconstruct the third time as well as many times thereafter.

Regarding claims 6-7, Zaremba/Stevens combination further discloses that the identifying includes identifying a related subset of files as the target object for a cumulative backup file (col.2, lines 38-41 and col.5, lines 40-44, Zaremba).

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Regarding claim 8, Zaremba/Stevens combination further discloses the identifying includes identifying a directory as the target object for a cumulative backup file (abstract; col.2, lines 38-41 and col.5, lines 40-44, Zaremba).

Regarding claim 9, Zaremba/Stevens combination further discloses that a user identifies the target object (col.2, line 62-col. 3, line 5, Zaremba).

Regarding claim 10, Zaremba/Stevens combination further discloses the monitoring and analyzing restore operations in the computer system (col.2, lines 38-41 and col.5, lines 40-44, Zaremba).

Regarding claim 11, Zaremba/Stevens combination further discloses the identifying of the target object is designed to meet a condition of bounded restore time for the target object (1, lines 15-32, Zaremba).

Regarding claim 12, Zaremba/Stevens combination further discloses controlling the frequency of generating at least one of a full, incremental and cumulative backup (abstract; col. 7, lines 5-21 and col.8, lines32-44, Zaremba).

Regarding claim 13, Zaremba/Stevens combination further discloses a computer-readable medium having computer-executable instructions (col.3, lines 47-60, Zaremba).

Regarding claim 17, Zaremba/Stevens combination further discloses that the generating of said at least one cumulative backup file is performed off-line (see Fig. 2 and col. 1, lines 49-56, Stevens).

Regarding claim 18, Zaremba/Stevens combination further discloses the monitoring and analyzing restore operations (col. 2, lines 50-61, Zaremba).

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Regarding claim 19, Zaremba/Stevens combination further discloses that the identifying of the target object is designed to meet a condition of bounded restore time (col. 2, lines 32-49, Zaremba).

Regarding claims 20-21, Zaremba/Stevens combination further the frequency of generating at least one of a full, incremental and cumulative backup (abstract; col. 7, lines 5-21 and col.8, lines32-44, Zaremba).

Regarding claims 22 and 32, Zaremba discloses a computer system (Fig. 1) comprising:

- a plurality of servers having at least one connection to a communications network (see col. 3, line 46 to col. 4, line 7, Zaremba); and
- a plurality of storage components for the storage of backup information for a plurality of target objects in the form of full, incremental and cumulative backup information, wherein the full and incremental backup information is associated with the collection of said plurality of target objects (see col. 1, lines 45-49; col. 2, lines 26-61; col.4, lines 4-67; col.5, line 13 to col. 6, line 11 and col.8, lines 32-46, Zaremba);

Zaremba does not disclose that the backup information wherein the backup can be performed off-line. Stevens discloses an apparatus for remote recovery including the backup file that can be performed off-line (see Fig. 2 and col. 1, lines 49-56, Stevens). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Zaremba to include the claim feature. The motivation of doing so would have been to provide potentially relief for data loss (col. 1, lines 49-56, Stevens).

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Regarding claim 23, Zaremba/Stevens combination discloses wherein the target object is reconstructed by processing at least one cumulative backup file of the cumulative backup information associated with said target object and a full backup file associated with the collection of said plurality of target objects (see col. 2, lines 32-49, Zaremba).

Regarding claim 25, Zaremba/Stevens combination discloses wherein the plurality of storage components store backup information for the target object according to a user specification as to which subset of files comprises the target object (see col. 2, lines 31-33, Zaremba).

Regarding claim 26, Zaremba/Stevens combination discloses that the plurality of storage components store backup information for a volume (see col. 5, lines 4-9, Zaremba).

Regarding claim 27, Zaremba/Stevens combination discloses that the plurality of storage components store backup information for a directory (see col. 6, line 63 to col. 7, line 3, Zaremba).

Regarding claim 28, Zaremba/Stevens combination discloses that at least one of the plurality of servers generates the backup information in response to monitoring and analyzing an inefficiency of a system restore operation (see col. 6, lines 4-10, Zaremba).

Regarding claim 29, Zaremba/Stevens combination discloses a condition of bounded restore time for the plurality of target objects (see 1, lines 15-32, Zaremba).

Regarding claim 30, Zaremba/Stevens combination discloses the generation of a cumulative backup file includes the analysis of at least one incremental file of the incremental backup information generated for the plurality of target objects (see col. 1, lines 45-49 and col. 2, lines 26-61, Zaremba)

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5. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Zaremba (U. S. Patent no. 6,647,399) of record in view of Stevens (U. S. Patent no. 6,145,088) of record and further in view of Fletcher et al. (U. S. Patent no. 6,038,379) of record.

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Regarding claim 14, Zaremba/Stevens discloses all of the claimed limitations as discussed above, except "the storage block mappings for the target object" and "the change is stored in the format of MTF".

Fletcher discloses a data backup and restores system for computer network including the claimed feature (see col. 6, lines 10-19 and col. 8, lines 18-36, Fletcher). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teaching of Zaremba and Stevens. The motivation of doing so would have been to enhance the full backup and recovery system, for example, the capability of interchanging data between different operating system (see col. 2, lines 14-19, Fletcher).

Claims 3, 16, 31 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zaremba (U. S. Patent no. 6,647,399) of record in view of Stevens (U. S. Patent no. 6,145,088) of record and further view of Pongracz et al. (U. S. Patent no. 6,073,128) of record.

Regarding claims 3, 16, 31 and 33, Zaremba/Stevens combination discloses all of the claimed limitations as discussed above, except that at least one incremental file is performed in reverse chronological order. Pongracz discloses a method for identifying files used to restore a file and is performed in reverse chronological order (see col.3, lines 45-49, Pongracz). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Zaremba/Stevens to include the claim feature as taught by Pongracz. The motivation of doing so would have been to provide a properly backup file system (see col.3, lines 36-39, Pongracz).

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Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hanh B. Thai whose telephone number is 571-272-4029. The examiner can normally be reached on 8 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Hanh B Thai Examiner Art Unit 2163

August 28, 2006

DON WONG
SUPERVISORY PATENT EXAMINER

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